



# Weekly Construction Report

## Hatchery Creek Design/Build Project



<b>Time Period:</b>	November 9-14, 2015	<b>Project No:</b>	1305
<b>Rain Days/Weather Conditions:</b>	Rained 0.5" on Monday (Burkesville gauge) which limited working to only excavating for culvert on Monday.		
<b>Personnel on-site:</b>	<i>EcoGro/Ridgewater:</i> Tom Cutter, Eric Dawalt, Jim Hanssen, Larry Mounce, Brad Redmon, Chad Relinski, Randall "Mokie" Starns, Randall Starns, Jr., Sherri Arthur Trucking-John Arthur.		
<b>Equipment on-site:</b>	Komatsu PC 360 excavator w/ hyd. thumb, Komatsu PC 160 w/ hyd. thumb, Komatsu PC 210 excavator, Komatsu PC 240 excavator, Terex TA27 articulated off-road dump truck, Bobcat T300 skid steer, & Morooka 2200 track dump truck. Sheepsfoot compactor was mobilized to site on Friday.		
<b>Material deliveries to project site:</b>	<ul style="list-style-type: none"> <li>▪ 290 tons of #8 stone for culvert bedding and backfill delivered by Benny Brown.</li> <li>▪ 47 tons of #57 stone for sidewalk subgrade delivered by Benny Brown.</li> <li>▪ Plywood, rebar, etc. for forming sidewalk.</li> <li>▪ 26 cubic yards of Class A, 5% air entrained concrete for sidewalk delivered by Albany Ready Mix.</li> </ul>		
<b>Work performed the past week:</b>	<ul style="list-style-type: none"> <li>• Culvert at and reach upstream of Campground Road/ ~Sta. 113+00 to 118+40:               <ul style="list-style-type: none"> <li>○ Hauled ~1,800 CY of soil from culvert excavation to Corps Disposal Area.</li> <li>○ Installed 115 linear feet of 84" equivalent diameter corrugated metal arch pipe culvert under Campground Road. Backfilled around culvert with #8 stone, which was compacted with a vibratory plate compactor.</li> <li>○ Hauled ~550 CY of shot rock from Corps Disposal Area. Installed shot rock in 12" lifts and compacted with sheepsfoot compactor for road fill over culvert.</li> <li>○ Utilities over culvert:                   <ul style="list-style-type: none"> <li>▪ Electric line conduit was kept in place during culvert construction. The conduit was cracked during excavation and subsequently repaired by SKRECC.</li> <li>▪ Removed and re-connected 3" water line with compression coupler. Reconnected location/marker wire over water line.</li> <li>▪ Both utilities were backfilled with #8 stone.</li> </ul> </li> <li>○ Built rock walking trail and steps from Campground Road to stream at ~LT Sta. 113+00.</li> </ul> </li> <li>• Reach downstream of migration barrier /~Sta. 105+90 to 113+00:               <ul style="list-style-type: none"> <li>○ Excavated for and built ravine spillway with 24" dia. rock from Sta. 0+30 to 0+50.</li> <li>○ Installed shot rock over geotextile from LT edge of stream channel to edge of 24" rock in ravine spillway (~Sta. 0+13 to 0+30).</li> </ul> </li> <li>• Public Fishing Area (PRA)/ ~Sta. 101+91 to 105+90:               <ul style="list-style-type: none"> <li>○ Finished forming and poured ~110 linear feet of 7'-wide sidewalk for handicap fishing area.</li> </ul> </li> </ul>		



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<b>Erosion &amp; sediment controls installed/maintained:</b>	<ul style="list-style-type: none"> <li>❖ Temporary flow diversion channel is in place.</li> <li>❖ Old channel in Public Fishing Area is serving as a sediment basin.</li> </ul>
<b>Work scheduled for next week:</b>	<ul style="list-style-type: none"> <li>⚙️ Finish building migration barrier side walls.</li> <li>⚙️ Widen ravine spillway Sta. 0+50 to 1+80 to design bottom width of 20 feet. Build plunge pool.</li> <li>⚙️ Install curb on new sidewalk adjacent to Public Fishing Area.</li> <li>⚙️ Build new channel through Public Fishing Area.</li> <li>⚙️ Finish grading banks upstream of Campground Road.</li> </ul>
<b>Work planned for two weeks ahead:</b>	<ul style="list-style-type: none"> <li>🐟 Turn flow from Hatchery into new stream.</li> <li>🐟 Fill temporary diversion channel with soil.</li> <li>🐟 Finish grading Public Fishing Area.</li> <li>🐟 Clean up haul roads and Corps Disposal Area.</li> </ul>
<b>General Comments:</b>	<ul style="list-style-type: none"> <li>➤ The Hatchery Creek Public Fishing Area is closed until November 30<sup>th</sup> so we may finish construction in that area.</li> <li>➤ On Tuesday, November 10<sup>th</sup>, KDFWR and USFWS personnel removed fish from the PFA stream. They used backpack electric shockers to stun the fish so they could be netted. The trout were then transported to the Cumberland River and released. They also clipped fins on over 10,000 juvenile trout at the Hatchery to identify those that will be released in the Public Fishing Area over the first six months that the stream is finished to monitor how many leave the PFA and enter the new stream.</li> </ul>
<b>Prepared by:</b> Eric Dawalt, P.E.	<b>Date:</b> 12-4-2015



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**Pictures from the past week's construction:**



***Excavating for culvert under Campground Road. Conduit for electric line is being suspended by log. (Picture taken looking downstream towards Campground Road).***



***Installing geotextile over soft soil prior to installing gravel bedding for culvert. (Picture taken looking downstream towards Campground Road from Right Descending Bank (RDB)).***





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***Backfilling sides of culvert with gravel and compacting it in lifts. (Picture taken looking downstream towards Campground Road).***



***Backfilling sides of culvert with gravel and compacting it in lifts. (Picture taken looking downstream towards Campground Road from RDB).***





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***Installing shot rock as road fill over culvert and compacting it in lifts with a sheepfoot compactor. Log suspending the electric conduit can be seen in left of picture. (Picture taken looking from RDB across Campground Road).***



***Completed culvert with gravel bedding and backfill completely around pipe, and road fill constructed of compacted shot rock. (Picture taken looking downstream towards Campground Road).***





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***Ravine Spillway: Installing geotextile and shot rock between ravine spillway constructed of 24" diameter boulders (in background) and stream channel (in foreground). (Picture taken from RDB at ~Sta. 106+30 of stream channel looking towards LDB and down ravine spillway centerline).***



***Ravine Spillway: Shot rock has been installed over 24" diameter boulders on right side of spillway. (Picture taken from approximate same location as above).***





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***Ravine Spillway: The majority of the boulders in the ravine spillway are 24" or larger in diameter. The voids between boulders were later filled with shot rock. (Survey rod in picture is 8 feet long).***



***Public Fishing Area: Forming new handicap accessible sidewalk and installing rebar for structural support. (Picture taken from RDB at ~Sta. 103+00 looking upstream).***





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**Public Fishing Area: Sidewalk after concrete was poured. (Picture taken from LDB at ~Sta. 102+00 looking downstream).**



**Public Fishing Area: View from the location of the Hatchery Creek web cam at the end of the week. Web address of web cam is: <http://wcnfh.com/cam0.php>**